

SEQUENCE LISTING

<110> Herr, John C.
5 Shetty, Jagathapala
Wolkowicz, Michael
Jayes, Friederike
Hao, Zhonglin

10 <120> Sperm Specific Proteins

<130> 00497-02

<140>
15 <141>

<150> 60/176,885
<151> 2000-01-19

20 <160> 20

<170> PatentIn Ver. 2.1

<210> 1
25 <211> 1337
<212> DNA
<213> Homo sapiens

<400> 1
30 ccagcctggt ggccccagga cgttcggtc gcatggcaga atgctggggg cgacgcctat 60
gaagccctta gtccttctag ttgcgctttt gctatggcct tcgtctgtgc cggcttatcc 120
gagcataact gtgacacctg atgaagagca aaacttgaat cattatatac aagttttaga 180
35 gaacctagta cgaagtgttc cctctgggga gccaggctgt gagaaaaaat ctaactctcc 240
aaaacatggt tattctatag catcaaaggg atcaaaattt aaggagctag ttacacatgg 300

agacgcttca actgagaatg atgttttaac caatcctatc agtgaagaaa ctacaacttt 360
 ccctacagga ggcttcacac cggaaatagg aaagaaaaaa cacacggaaa gtacccatt 420
 5 ctggtcgatc aaaccaaaca atgtttccat tgttttgcat gcagaggaac cttatattga 480
 aaatgaagag ccagagccag agccggagcc agctgcaaaa caaactgagg caccaagaat 540
 10 gttgccagtt gttactgaat catctacaag tccatatgtt acctcataca agtcacctgt 600
 caccacttta gataagagca ctggcattga gatctataca gaatcagaag atgttcctca 660
 gctctcaggt gaaactgcga tagaaaaacc cgaagagttt ggaaagcacc cagagagttg 720
 15 gaataatgat gacattttga aaaaaatttt agatattaat tcacaagtgc aacaggcact 780
 tcttagtgac accagcaacc cagcatatag agaagatatt gaagcctcta aagatcacct 840
 20 aaaaccagc cttgctctag cagcagcagc agaacataaa ttaaaaacaa tgtataagtc 900
 ccagttattg ccagtaggac gaacaagtaa taaaattgat gacatcgtaa ctgttattaa 960
 catgctgtgt aattctagat ctaaactcta tgaatattta gatattaaat gtgttccacc 1020
 25 agagatgaga gaaaaagctg ctacagtatt caatacatta aaaaatatgt gtagatcaag 1080
 gagagtcaca gccttattaa aagtttatta aacaataata taaaaatttt aaacctactt 1140
 30 gatattccat aacaaagctg atttaagcaa actgcatttt ttcacaggag aaataatcat 1200
 attcgtaatt tcaaaagttg tataaaaata ttttctattg tagttcaaat gtgccaacat 1260
 ctttatgtgt catgtgttat gaacaatttt catatgcact aaaaacctaa tttaaaataa 1320
 35 aattttggtt caggaaa 1337

-3-

<210> 2

<211> 350

<212> PRT

<213> Homo sapiens

5

<400> 2

```

Met Lys Pro Leu Val Leu Leu Val Ala Leu Leu Leu Trp Pro Ser Ser
  1              5              10              15

10 Val Pro Ala Tyr Pro Ser Ile Thr Val Thr Pro Asp Glu Glu Gln Asn
    20              25              30

    Leu Asn His Tyr Ile Gln Val Leu Glu Asn Leu Val Arg Ser Val Pro
      35              40              45

15 Ser Gly Glu Pro Gly Arg Glu Lys Lys Ser Asn Ser Pro Lys His Val
    50              55              60

    Tyr Ser Ile Ala Ser Lys Gly Ser Lys Phe Lys Glu Leu Val Thr His
20   65              70              75              80

    Gly Asp Ala Ser Thr Glu Asn Asp Val Leu Thr Asn Pro Ile Ser Glu
      85              90              95

25 Glu Thr Thr Thr Phe Pro Thr Gly Gly Phe Thr Pro Glu Ile Gly Lys
    100              105              110

    Lys Lys His Thr Glu Ser Thr Pro Phe Trp Ser Ile Lys Pro Asn Asn
      115              120              125

30 Val Ser Ile Val Leu His Ala Glu Glu Pro Tyr Ile Glu Asn Glu Glu
    130              135              140

    Pro Glu Pro Glu Pro Glu Pro Ala Ala Lys Gln Thr Glu Ala Pro Arg
35  145              150              155              160

    Met Leu Pro Val Val Thr Glu Ser Ser Thr Ser Pro Tyr Val Thr Ser
      165              170              175

```

-4-

Tyr Lys Ser Pro Val Thr Thr Leu Asp Lys Ser Thr Gly Ile Glu Ile
 180 185 190

5 Tyr Thr Glu Ser Glu Asp Val Pro Gln Leu Ser Gly Glu Thr Ala Ile
 195 200 205

Glu Lys Pro Glu Glu Phe Gly Lys His Pro Glu Ser Trp Asn Asn Asp
 210 215 220

10 Asp Ile Leu Lys Lys Ile Leu Asp Ile Asn Ser Gln Val Gln Gln Ala
 225 230 235 240

Leu Leu Ser Asp Thr Ser Asn Pro Ala Tyr Arg Glu Asp Ile Glu Ala
 15 245 250 255

Ser Lys Asp His Leu Lys Pro Ser Leu Ala Leu Ala Ala Ala Glu
 260 265 270

20 His Lys Leu Lys Thr Met Tyr Lys Ser Gln Leu Leu Pro Val Gly Arg
 275 280 285

Thr Ser Asn Lys Ile Asp Asp Ile Val Thr Val Ile Asn Met Leu Cys
 290 295 300

25 Asn Ser Arg Ser Lys Leu Tyr Glu Tyr Leu Asp Ile Lys Cys Val Pro
 305 310 315 320

Pro Glu Met Arg Glu Lys Ala Ala Thr Val Phe Asn Thr Leu Lys Asn
 30 325 330 335

Met Cys Arg Ser Arg Arg Val Thr Ala Leu Leu Lys Val Tyr
 340 345 350

35
 <210> 3
 <211> 22
 <212> DNA

-5-

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer

5

<220>

<221> primer_bind

<222> (1)..(22)

10

<400> 3

cttgctctag cagcagcaga ac

22

<210> 4

15

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

20

<223> Description of Artificial Sequence: PCR Primer

<220>

<221> primer_bind

<222> (1)..(30)

25

<400> 4

tcataacaca tgacacataa agatggttggc

30

30

<210> 5

<211> 43

<212> DNA

<213> Artificial Sequence

35

<220>

<223> Description of Artificial Sequence: PCR Primer

<220>

-6-

<221> primer_bind

<222> (1)..(43)

<400> 5

5 catgcatgcc atggatccga gcataactgt gacacctgat gaa

43

<210> 6

<211> 44

10 <212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Primer

15

<220>

<221> primer_bind

<222> (1)..(44)

20 <400> 6

gagtcgctcg agataaactt ttaataaggc tgtgactctc cttg

44

<210> 7

25 <211> 14

<212> PRT

<213> Homo sapiens

<400> 7

30 Ala Ser Thr Pro Glu Val Gln Ser Glu Gln Ser Ser Val Arg

1

5

10

<210> 8

35 <211> 1455

<212> DNA

<213> Homo sapiens

<400> 8

gcgcttcgac gtacctgtcc tcaggagccg cggcggcgac tgcgcctcgg acggccgctc 60
 gggccgagaa ccatgagccc caggggcacg ggctgctccg ccgggctgct gatgactgtc 120
 5 ggctggctgc ttctggcggg cctccagtcc gcgcgcggga ccaacgtcac cgctgccgtc 180
 caggatgccg gcctggccca cgaaggcgag ggcgaggagg agaccgaaaa caacgacagc 240
 10 gagaccgcgg agaactacgc tccgcctgaa accgaggatg tttcaaatag gaatgtcgtc 300
 aaagaagtag aattcggaat gtgcaccgtt acatgtggta ttgggggttag agaagttata 360
 ttaacaaatg gatgccctgg tggatgaatcc aagtgtgttg tacgggtaga agaatgccgt 420
 15 ggaccaacag attgtggctg gggtaaacca atttcagaaa gtcttgaaag tgtagattg 480
 gcatgtatcc acacatctcc cttaaactgt ttcaaata tgtggaaact tctaagacaa 540
 20 gaccaacaat ccattatact tgtaaatgat tcagcaatcc tagaagtacg caaggaaagt 600
 cacccttggt ctttcgagtg tgacacactg gataataatg aaatagtagc aactattaaa 660
 ttcacagtct atacgagcag tgaattgcag atgagaagat caagcctacc agccactgat 720
 25 gcagccctaa tttttgtgct gaccatagga gtcattatct gtgtatttat aattttctta 780
 ttgatcttca taatcataaa ttgggcagca gtcaaggctt tttggggggc aaaagcctct 840
 30 acacctgagg tacaatccga gcagagttct gtgagatata aagattcaac ttctcttgac 900
 caattaccaa cagaaatgcc tggatgaagat gatgctttta gtgaatggaa tgaatgatgt 960
 ttgaatgata tataacaaac caaaggatat tacagaatat tagattcatt attacaaaaa 1020
 35 taaaatacac attgaaatac tttaataatg ttgcgatgga ttgccacagt gtgaaggaaa 1080
 tgcagtgtgg ggataggact attttatcag tgcatttttc cagtacagtt atcaaatatt 1140

-8-

acttttaatt tgtttctcaac acttatttca ggtaatagct tggggatatt tatctaaagt 1200

acccccaaca aatcttctaa gtgcattttt gatcactttg ataacttctt aggtgatttg 1260

5 cctgttttgt cttaaataag aacaatgtaa tatagaaatg ctttacatat tagactttct 1320

ctcccctgga agcactgggt tgaacttgct aaagtaaadc atactttaga atctcttcag 1380

10 ggaatgtgac atacaaagtt tgtaagacat gaagtaataa cgataatgat aacaataaat 1440

gcttacttag tgaaa 1455

15 <210> 9
 <211> 294
 <212> PRT
 <213> Homo sapiens

20 <400> 9
 Met Ser Pro Arg Gly Thr Gly Cys Ser Ala Gly Leu Leu Met Thr Val
 1 5 10 15

Gly Trp Leu Leu Leu Ala Gly Leu Gln Ser Ala Arg Gly Thr Asn Val
 25 20 25 30

Thr Ala Ala Val Gln Asp Ala Gly Leu Ala His Glu Gly Glu Gly Glu
 35 40 45

30 Glu Glu Thr Glu Asn Asn Asp Ser Glu Thr Ala Glu Asn Tyr Ala Pro
 50 55 60

Pro Glu Thr Glu Asp Val Ser Asn Arg Asn Val Val Lys Glu Val Glu
 65 70 75 80

35 Phe Gly Met Cys Thr Val Thr Cys Gly Ile Gly Val Arg Glu Val Ile
 85 90 95

[illegible]

-10-

<210> 10
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 5
 <220>
 <223> Description of Artificial Sequence: PCR Primer

 <220>
 10 <221> primer_bind
 <222> (1)..(22)

 <400> 10
 agtcacccct tggcttttoga gt 22
 15

 <210> 11
 <211> 24
 <212> DNA
 20 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: PCR Primer

 25 <220>
 <221> primer_bind
 <222> (1)..(24)

 30 <400> 11
 aatattctgt aatataccttt gggt 24

 <210> 12
 35 <211> 24
 <212> DNA
 <213> Artificial Sequence

-11-

<220>

<223> Description of Artificial Sequence: PCR Primer

<220>

5 <221> primer_bind

<222> (1)..(24)

<400> 12

10 ctttgtatgt cacattccct gaag 24

<210> 13

<211> 24

<212> DNA

15 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Primer

20 <220>

<221> primer_bind

<222> (1)..(24)

<400> 13

25 gaggtacaat ccgagcagag ttct 24

<210> 14

<211> 600

30 <212> DNA

<213> Homo sapiens

<400> 14

35 gtcccgatc cgcgaggac gcagggcggt gggaacagag gacactccag gcgctgacct 60

tgggaggcca ggaccagggc caaagtcccg tgggcaagag gagtcctcag aggtccttca 120

ttcagcggtt ccgggaggtc tgggaagccc acggcctggc tggggcaggg tcaacgccgc 180

-12-

caggccgcca tggctcctgtg ctggctgctg cttctggtga tggctctgcc cccaggcacg 240
 acgggcgta aggactgcgt cttctgtgag ctcaccgact ccatgcagtg tcttggtacc 300
 5 tacatgcact gtggcgatga cgaggactgc ttcacaggcc acggggtcgc cccgggcact 360
 ggtccggtca tcaacaaagg ctgcctgcga gccaccagct gcggccttga ggaacccgtc 420
 10 agctacaggg gcgtcaccta cagcctcacc accaactgct gcaccggccg cctgtgtaac 480
 agagccccga gcagccagac agtggggggc accaccagcc tggcactggg gctgggtatg 540
 ctgcttcctc cacgtttgct gtgaccaaca gggaggacag ggctggggac tgttcttcca 600
 15
 <210> 15
 <211> 375
 <212> DNA
 20 <213> Homo sapiens
 <400> 15
 atggctcctgt gctggctgct gcttctggtg atggctctgc cccaggcac gacgggctc 60
 25 aaggactgcg tcttctgtga gctcaccgac tccatgcagt gtcttggtac ctacatgcac 120
 tgtggcgatg acgaggactg cttcacaggc cacggggtcg cccggggcac tgggccggtc 180
 atcaacaaag gctgcctgcg agccaccagc tgcggccttg aggaacccgt cagctacagg 240
 30 ggcgtcacct acagcctcac caccaactgc tgcaccggcc gcctgtgtaa cagagccccg 300
 agcagccaga cagtgggggc caccaccagc ctggcactgg ggctgggtat gctgcttcct 360
 35 ccacgtttgc tgtga 375

-13-

<210> 16

<211> 124

<212> PRT

<213> Homo sapiens

5

<400> 16

Met Val Leu Cys Trp Leu Leu Leu Leu Val Met Ala Leu Pro Pro Gly
 1 5 10 15

10 Thr Thr Gly Val Lys Asp Cys Val Phe Cys Glu Leu Thr Asp Ser Met
 20 25 30

Gln Cys Pro Gly Thr Tyr Met His Cys Gly Asp Asp Glu Asp Cys Phe
 35 40 45

15

Thr Gly His Gly Val Ala Pro Gly Thr Gly Pro Val Ile Asn Lys Gly
 50 55 60

20 Cys Leu Arg Ala Thr Ser Cys Gly Leu Glu Glu Pro Val Ser Tyr Arg
 65 70 75 80

Gly Val Thr Tyr Ser Leu Thr Thr Asn Cys Cys Thr Gly Arg Leu Cys
 85 90 95

25

Asn Arg Ala Pro Ser Ser Gln Thr Val Gly Ala Thr Thr Ser Leu Ala
 100 105 110

30 Leu Gly Leu Gly Met Leu Leu Pro Pro Arg Leu Leu
 115 120

<210> 17

<211> 569

35

<212> DNA

<213> Homo sapiens

-14-

<400> 17
 gcactggtcc ggtcatcaac aaaggctgcc tgcgagccac cagctgcggc cttgaggaac 60
 ccgtcagcta caggggcgtc acctacagcc tcaccaccaa ctgctgcacc ggccgcctgt 120
 5 gtaacagagc cccgagcagc cagacagtgg gggccaccac cagcctggca ctggggctgg 180
 gtatgctgct tctccacgt ttgctgtgac caacagggag gacagggcct gggactgttc 240
 10 tcccagatcc gccactcccc atgtcccat gtccttcccc cactaaatgg ccagagaggc 300
 cctggacaac ctcttgcgcc cctggcttca tcccttctaa ggctgtccac caggagcccc 360
 gtgctagggg aagcatcccc aggcctgact gagcggcagg ggagcacggc ccgtggggtt 420
 15 gattgtatta ctctgttcca ctggttctaa gacgcagagc ttctcacatc tcaatcagga 480
 tgcttctctc cattggtagc actttagagt ccatgaaata tggtaaaaaa tatatatata 540
 20 tcataataaa tgacagctga tgttcaaaa 569

<210> 18
 <211> 166
 25 <212> DNA
 <213> Homo sapiens

<400> 18
 atgggtcctgt gctggctgct gcttctggtg atggctctgc cccagggcac gacgggcgtc 60
 30 aaggactgcg tcttctgtga gctcaccgac tccatgcagt gtcttggtac ctacatgcac 120
 tgtggcgatg acgaggactg cttcacaggc cacggggctg ccccg 166

35

<210> 19
<211> 13
<212> PRT
<213> Homo sapiens

5

<400> 19
Ala Thr Ser Cys Gly Leu Glu Glu Pro Val Ser Tyr Arg
1 5 10

10

<210> 20
<211> 128
<212> PRT
<213> Homo sapiens

15

<400> 20

20 Met Arg Thr Ala Leu Leu Leu Leu Ala Ala Leu Ala Val Ala Thr Gly
1 5 10 15

25 Pro Ala Leu Thr Leu Arg Cys His Val Cys Thr Ser Ser Ser Asn Cys
20 25 30

30 Lys His Ser Val Val Cys Pro Ala Ser Ser Arg Phe Cys Lys Thr Thr
35 40 45

35 Asn Thr Val Glu Pro Leu Arg Gly Asn Leu Val Lys Lys Asp Cys Ala
50 55 60

40 Glu Ser Cys Thr Pro Ser Tyr Thr Leu Gln Gly Gln Val Ser Ser Gly
65 70 75 80

45 Thr Ser Ser Thr Gln Cys Cys Gln Glu Asp Leu Cys Asn Glu Lys Leu
85 90 95

50 His Asn Ala Ala Pro Thr Arg Thr Ala Leu Ala His Ser Ala Leu Ser
100 105 110

55 Leu Gly Leu Ala Leu Ser Leu Leu Ala Val Ile Leu Ala Pro Ser Leu
115 120 125